

FIG. 2A

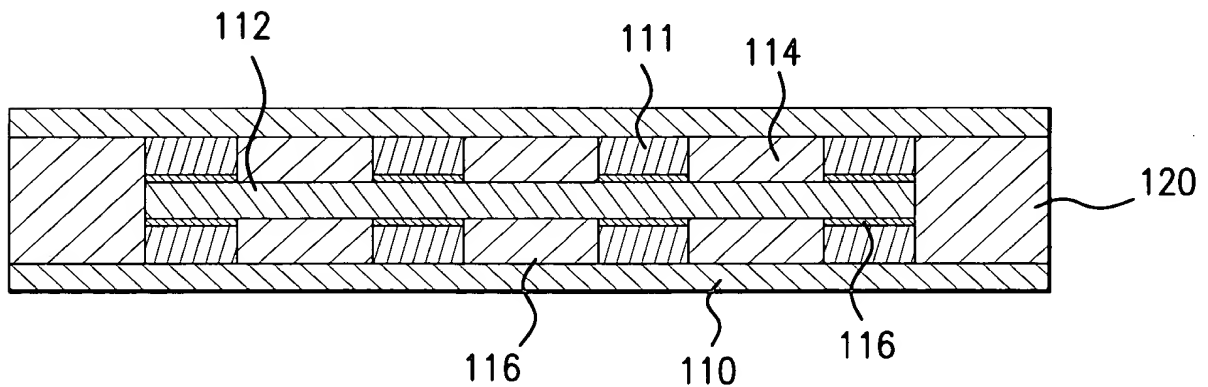


FIG. 2B

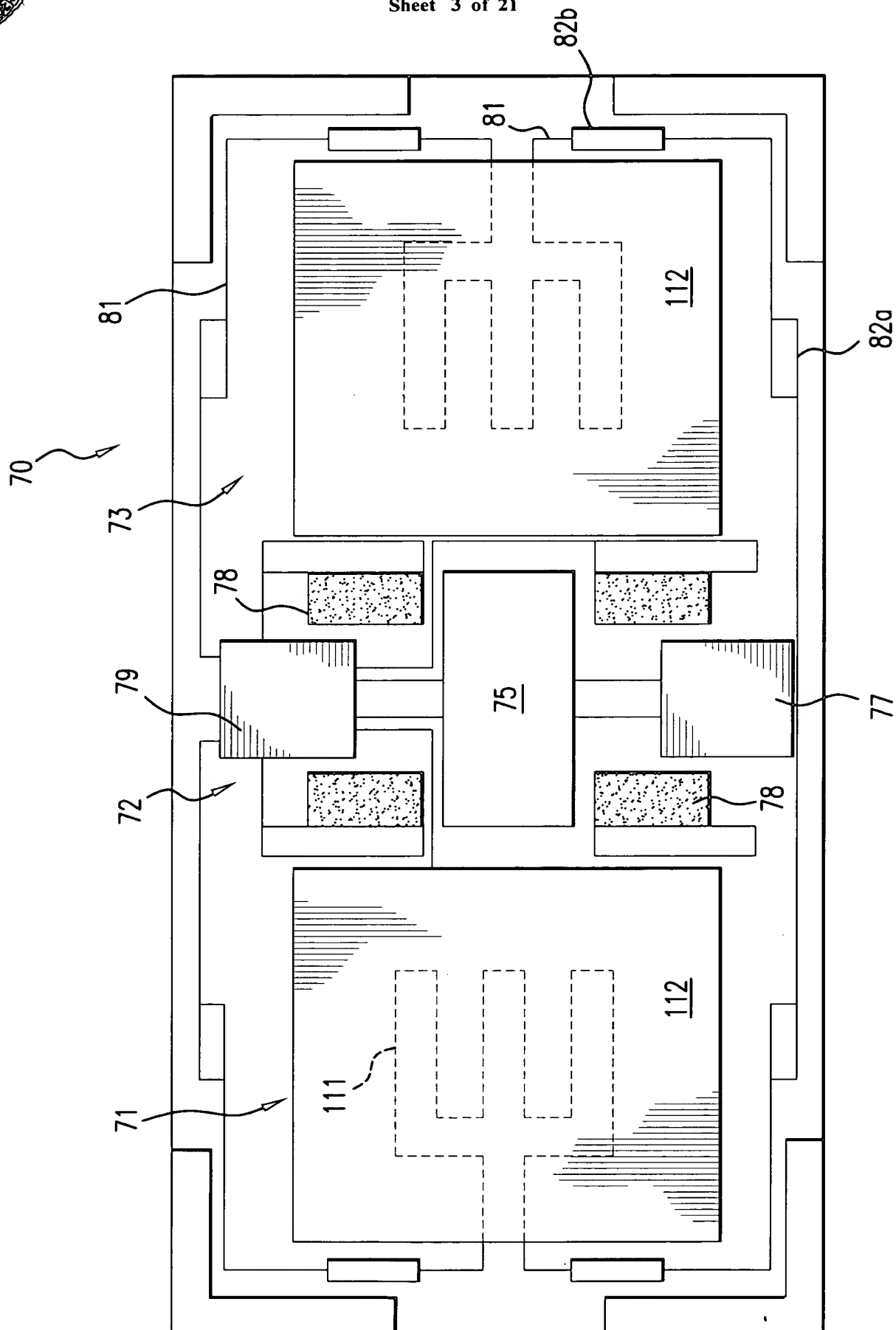
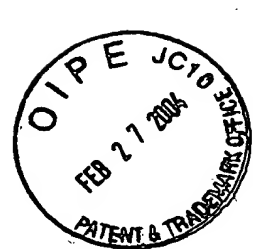


FIG. 2C

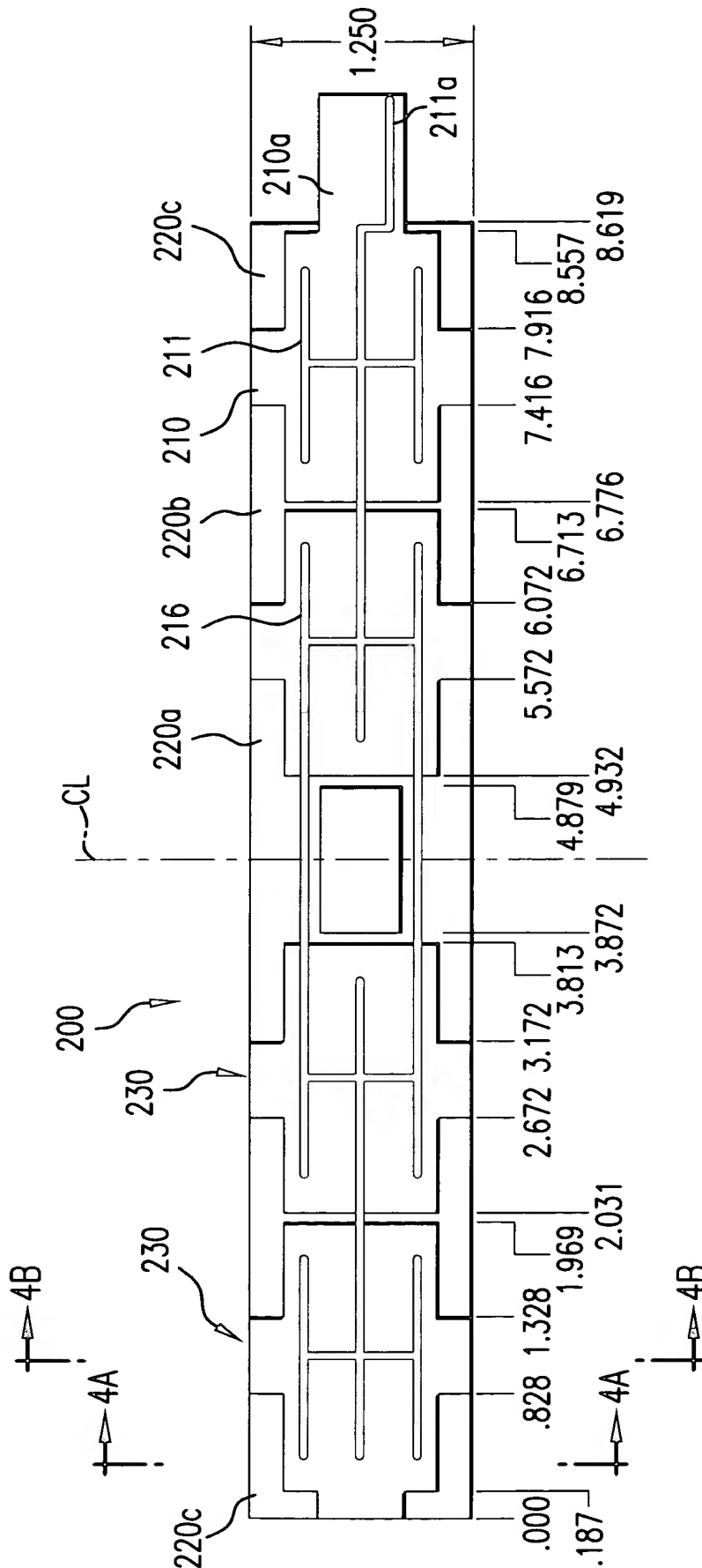


FIG. 3

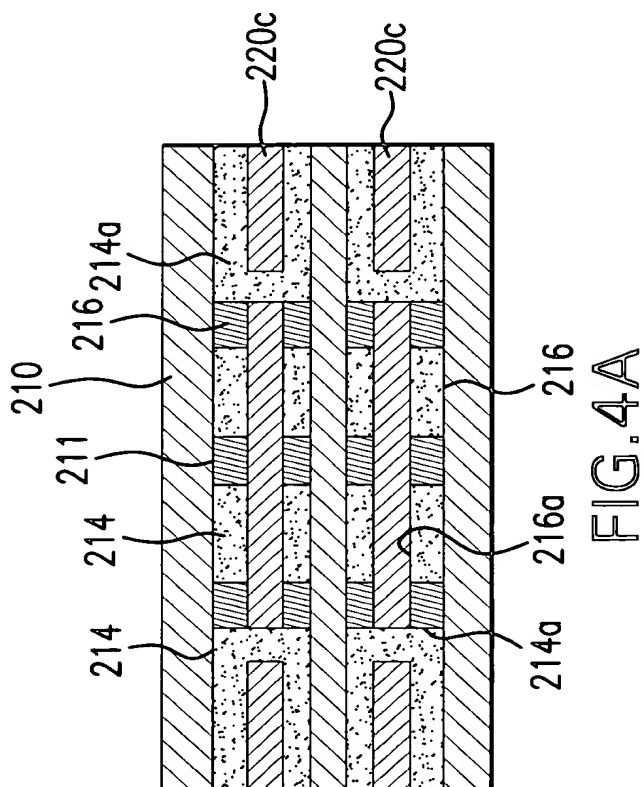


FIG. 4A

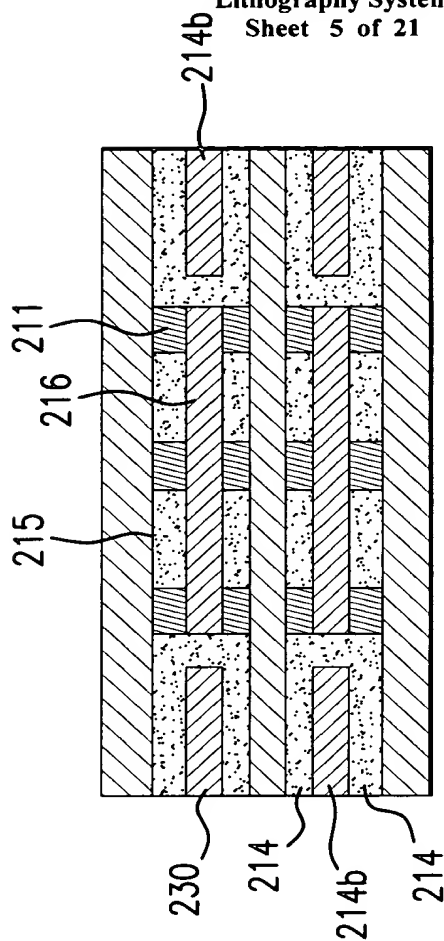
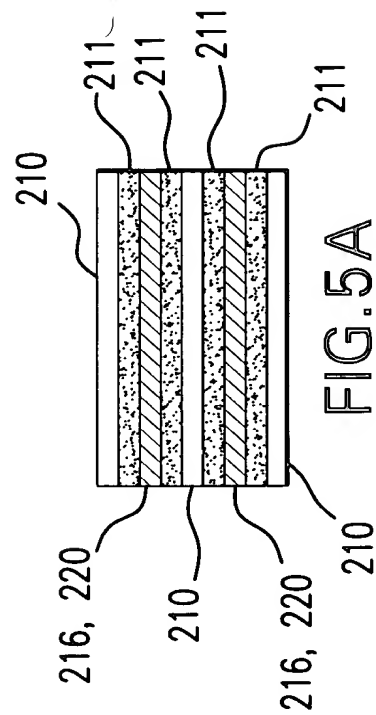
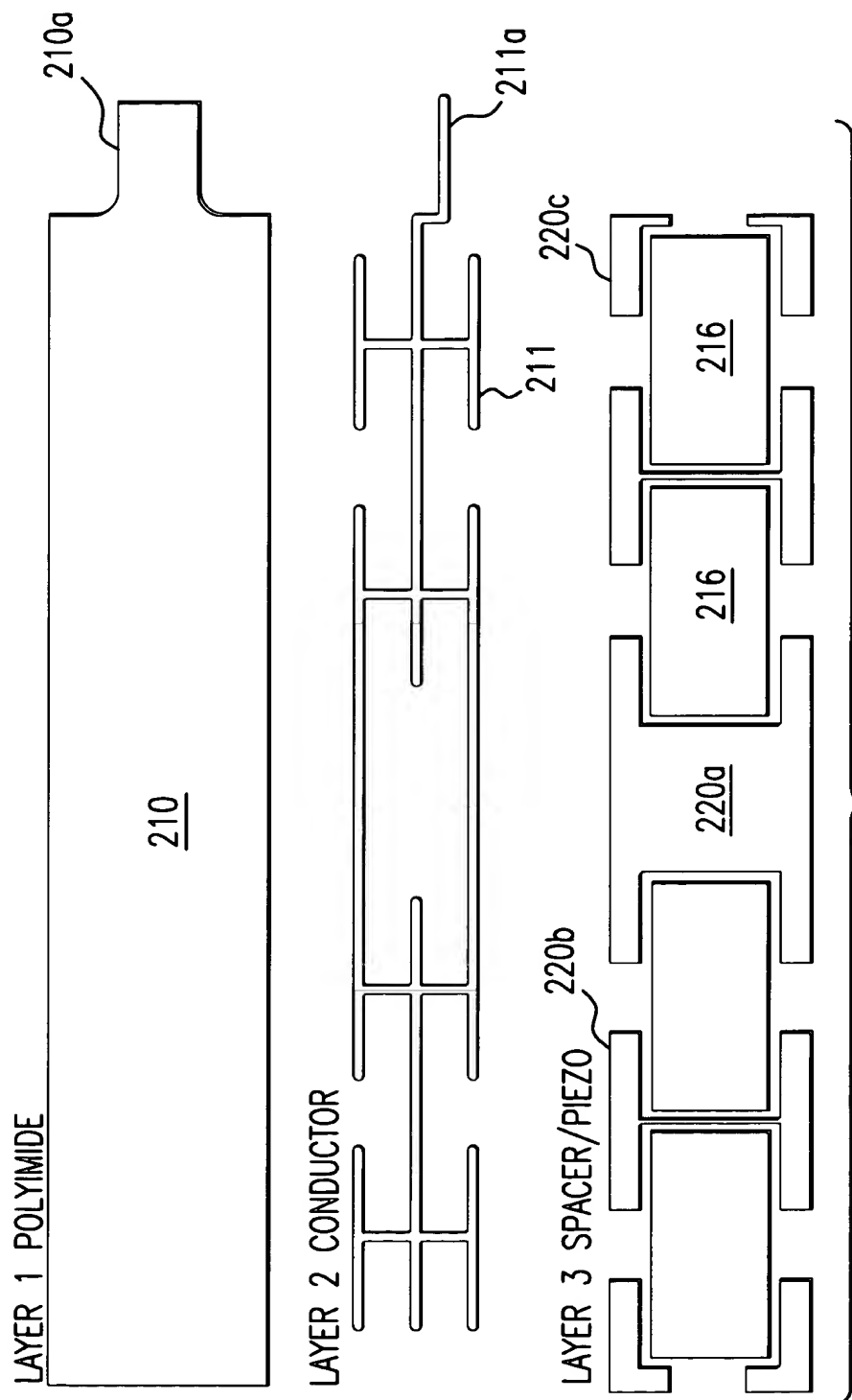
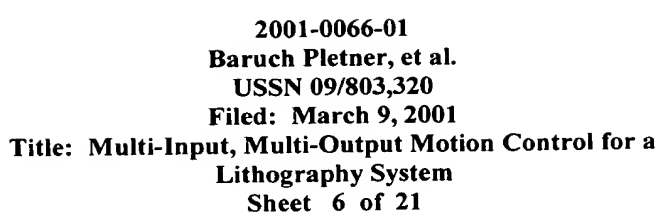


FIG. 4.



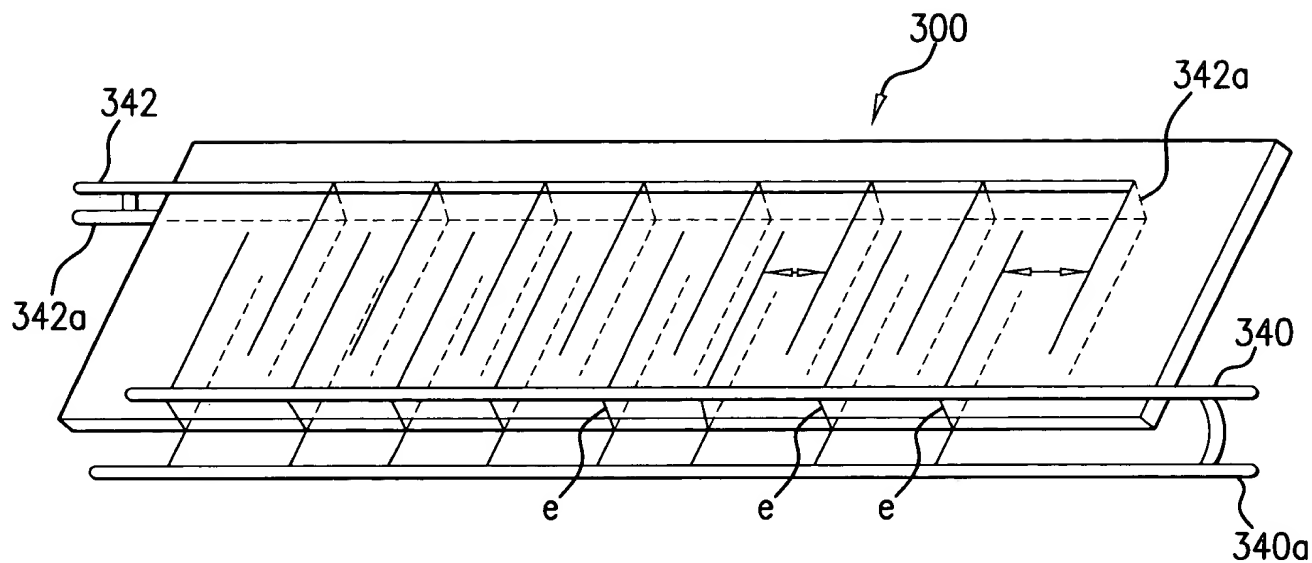


FIG. 6

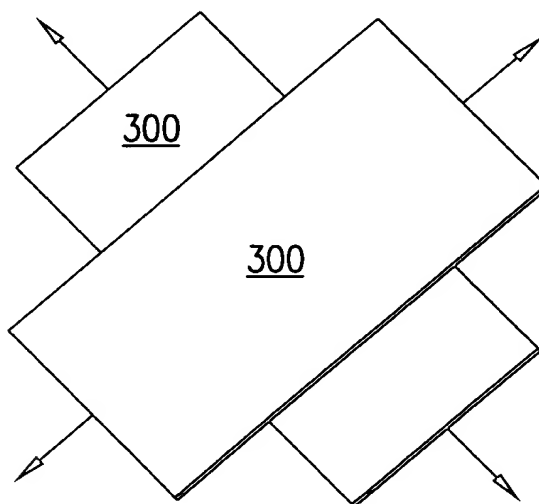


FIG. 7

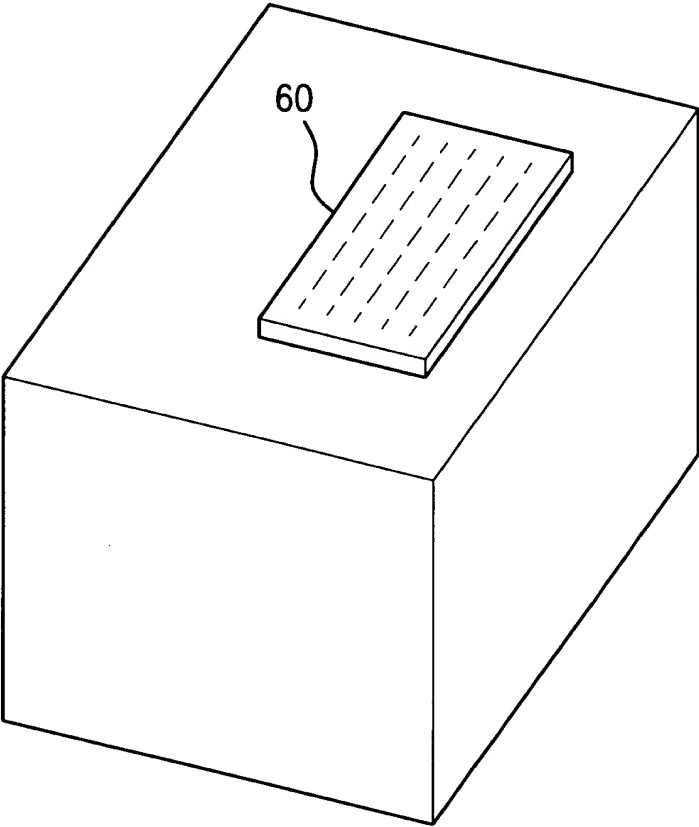


FIG. 8A

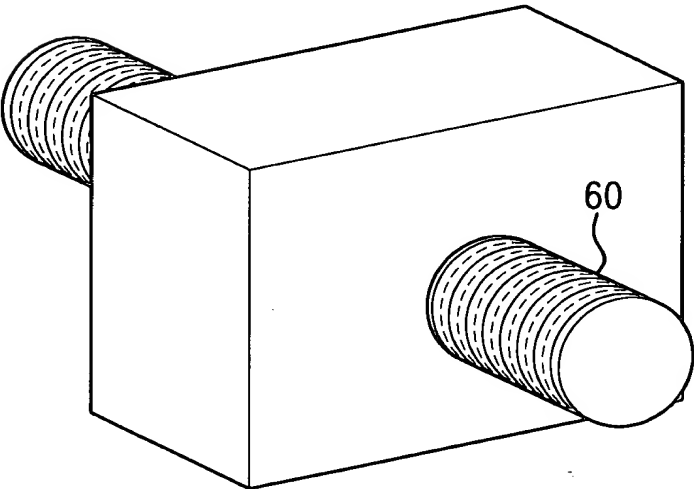


FIG. 8B

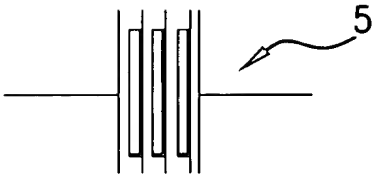
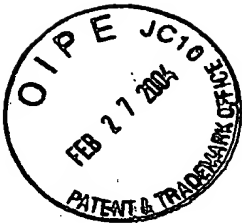


FIG. 9A

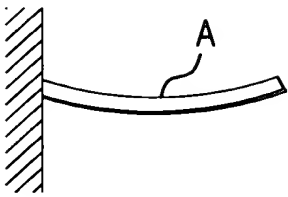


FIG. 9B



FIG. 9C

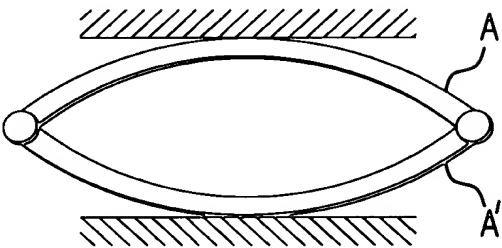


FIG. 9D

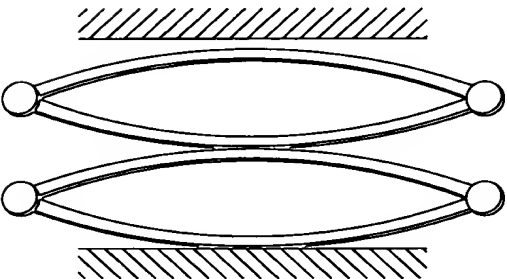


FIG. 9E

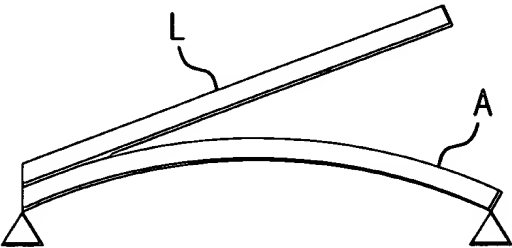


FIG. 9F

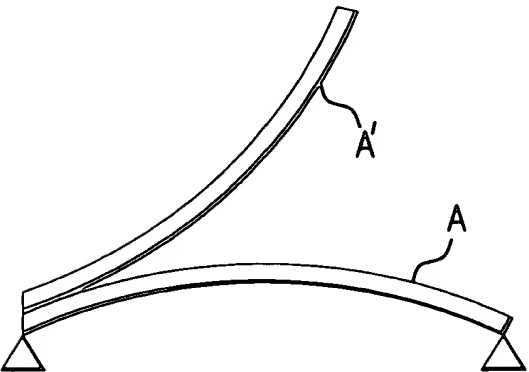


FIG. 9G

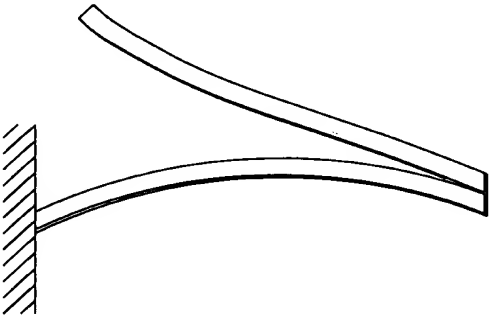


FIG. 9H

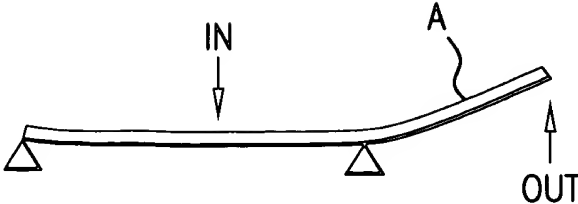


FIG. 9I

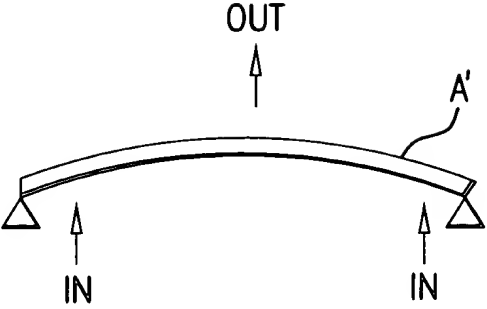


FIG. 9J

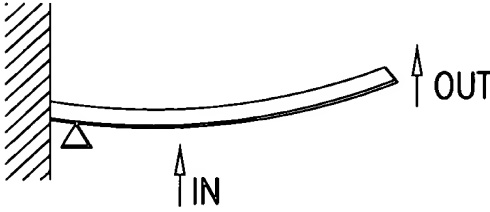


FIG. 9K

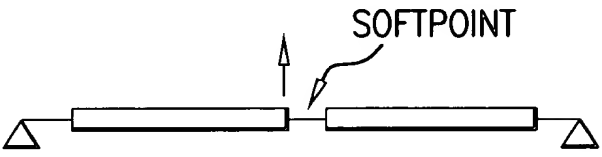


FIG. 9L

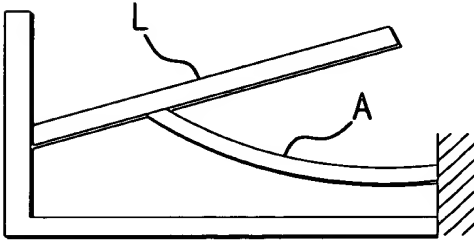


FIG. 9M

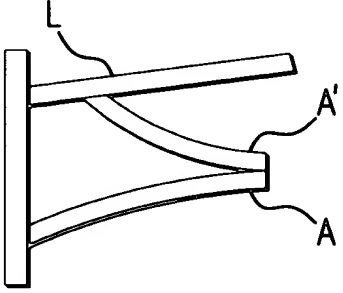


FIG. 9N

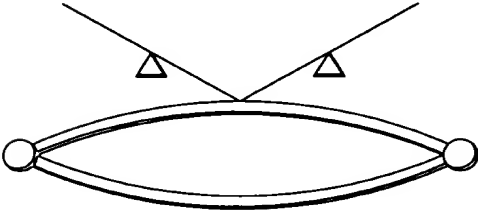


FIG. 9O

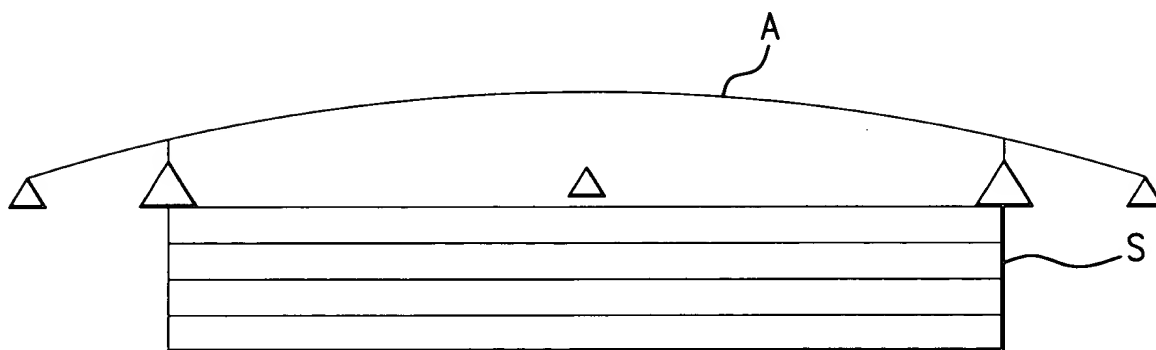


FIG. 9P

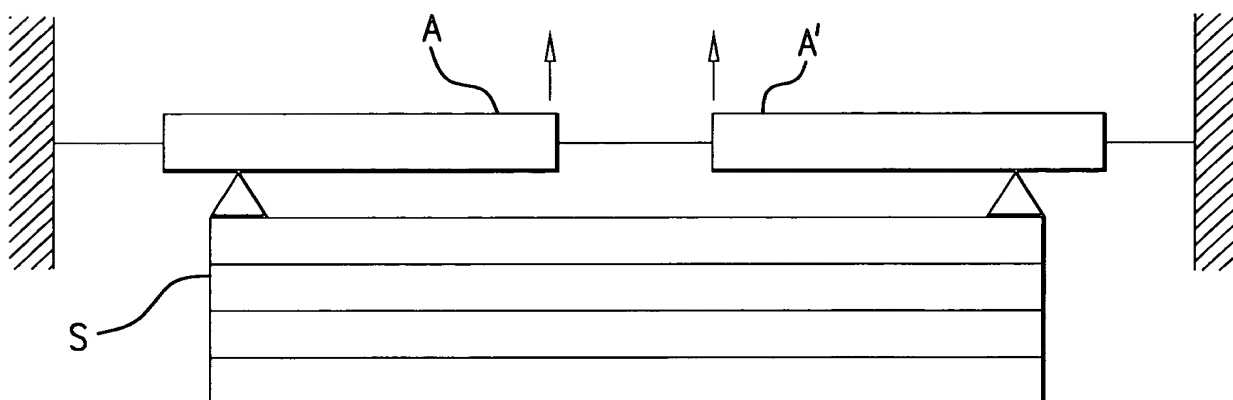


FIG. 9Q

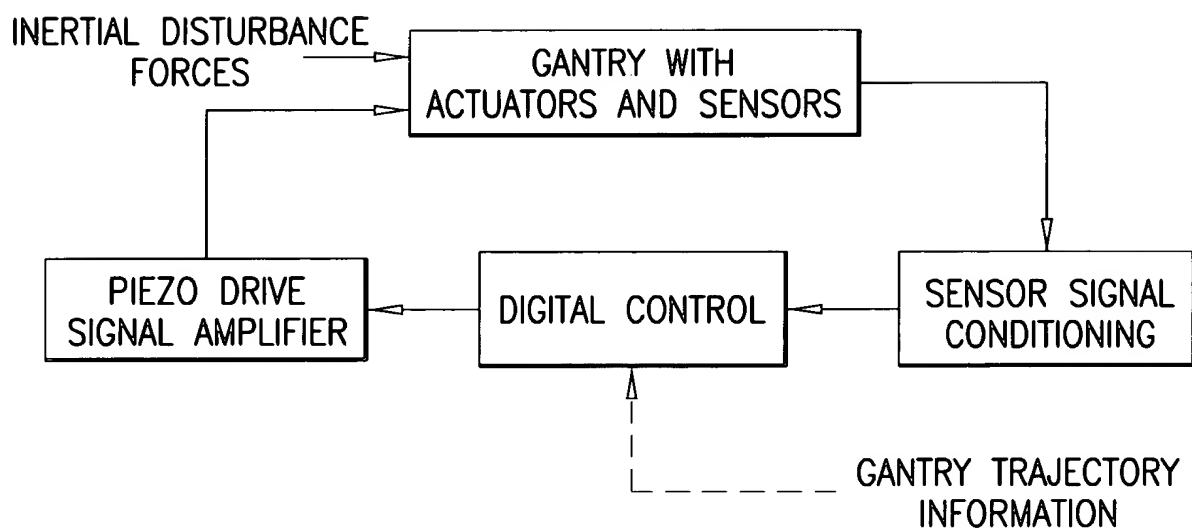
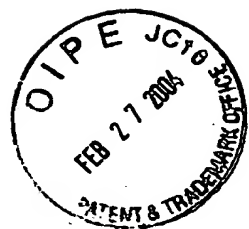


FIG.10

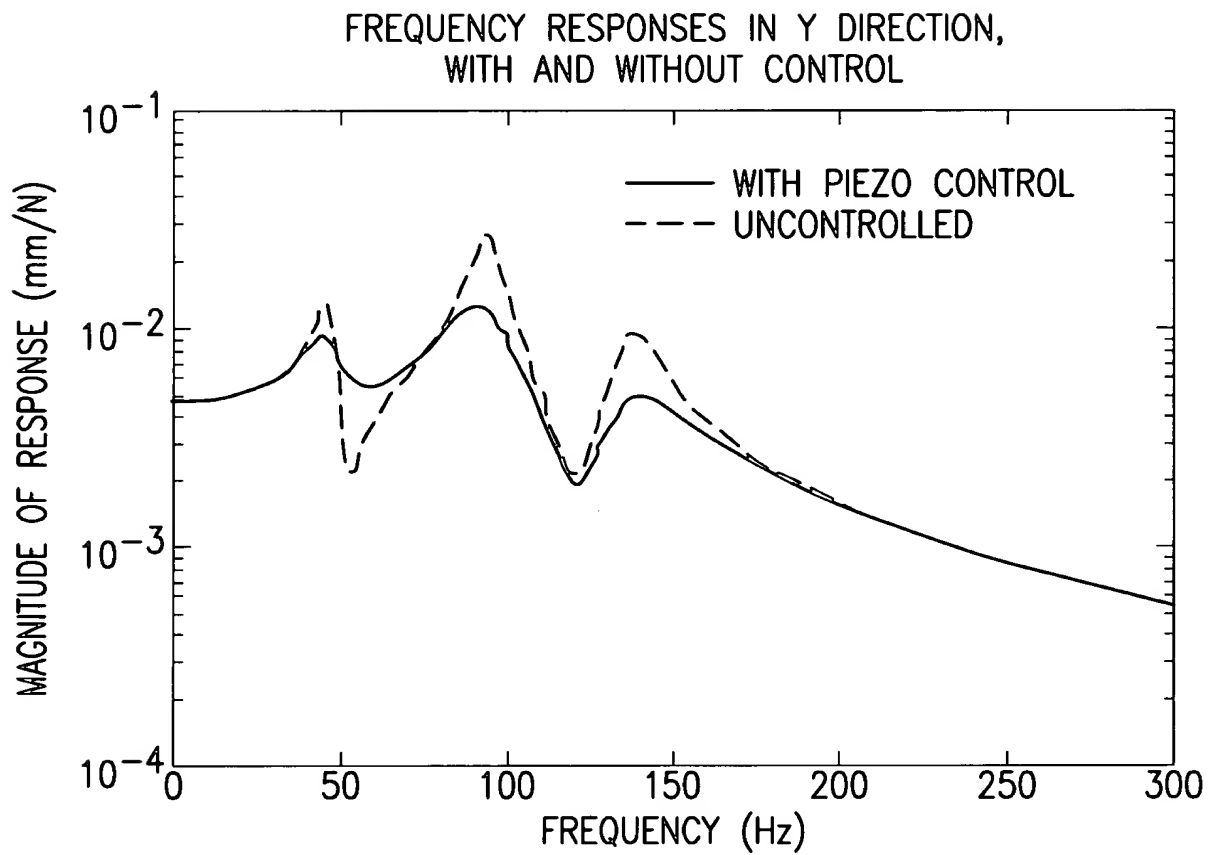
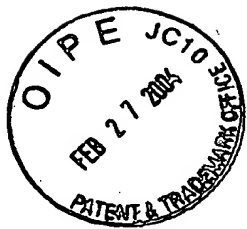


FIG. 11

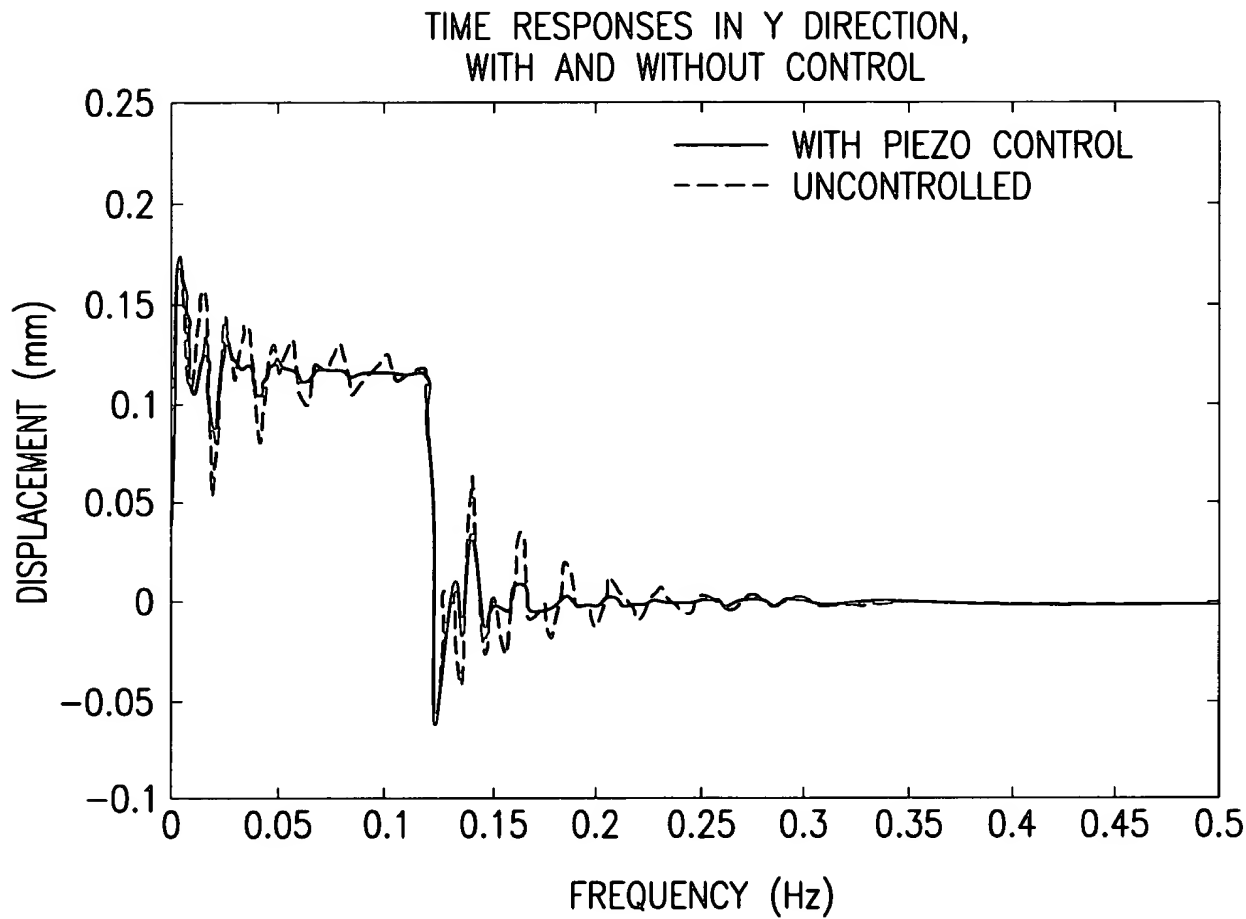


FIG.12

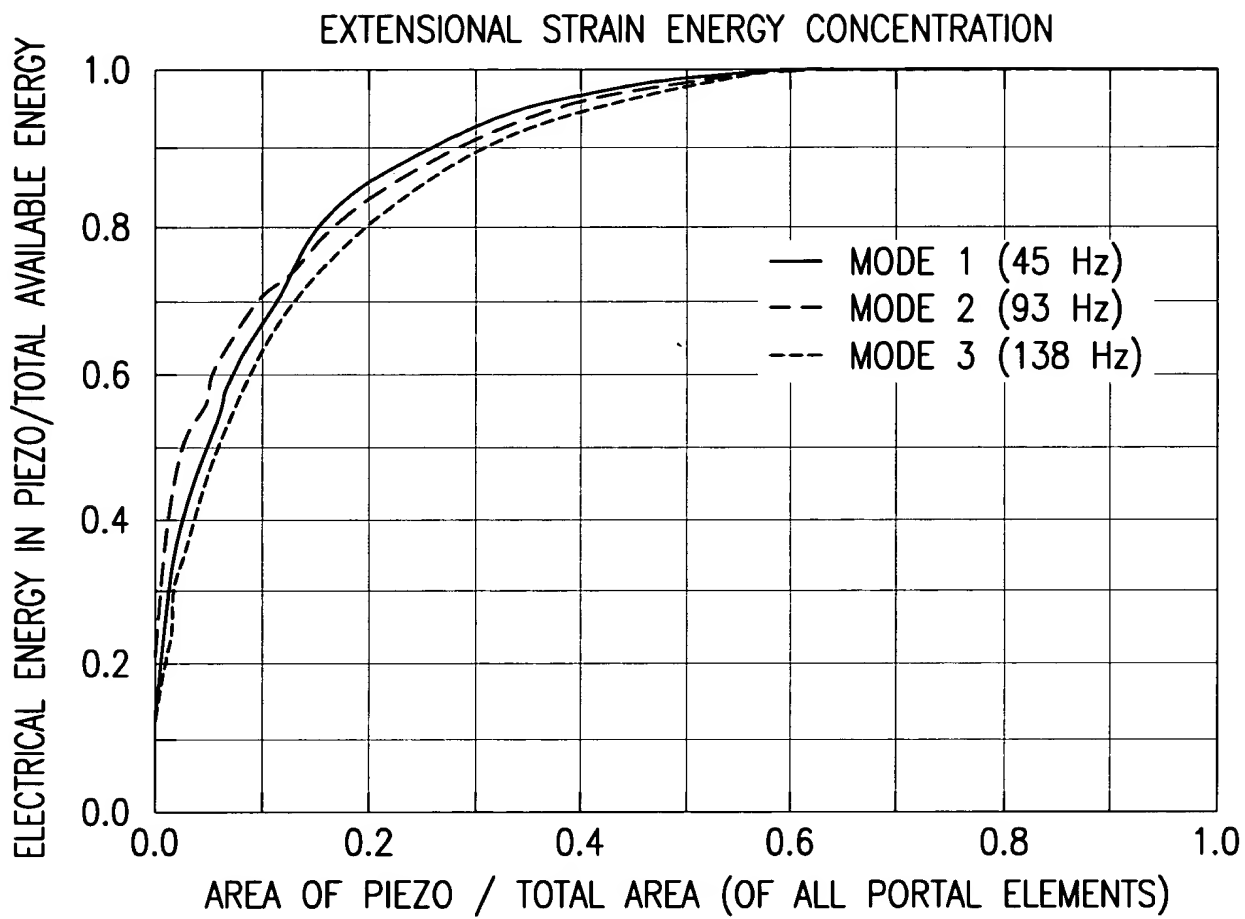


FIG.13

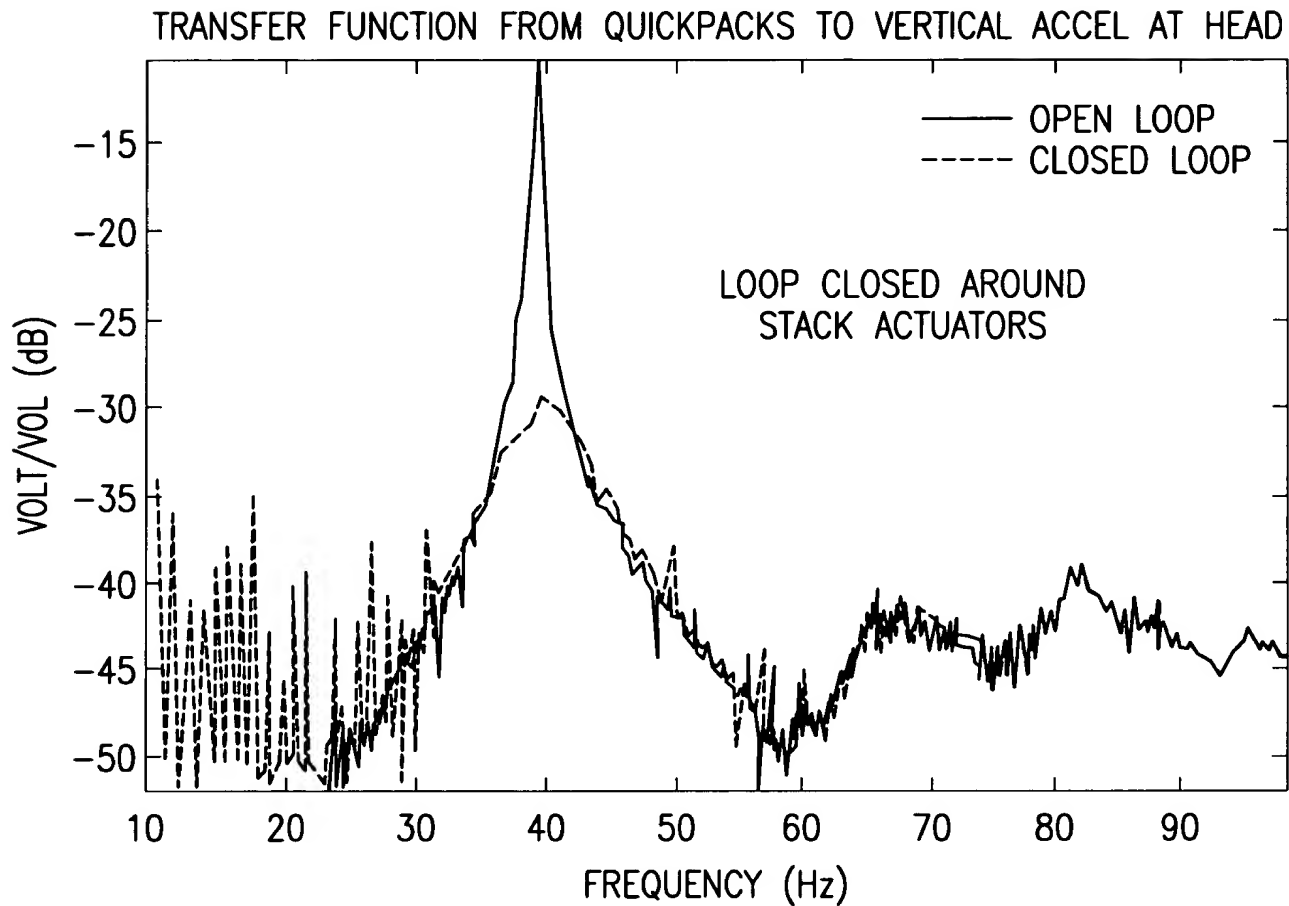
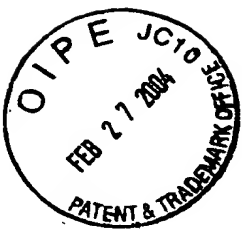


FIG.14

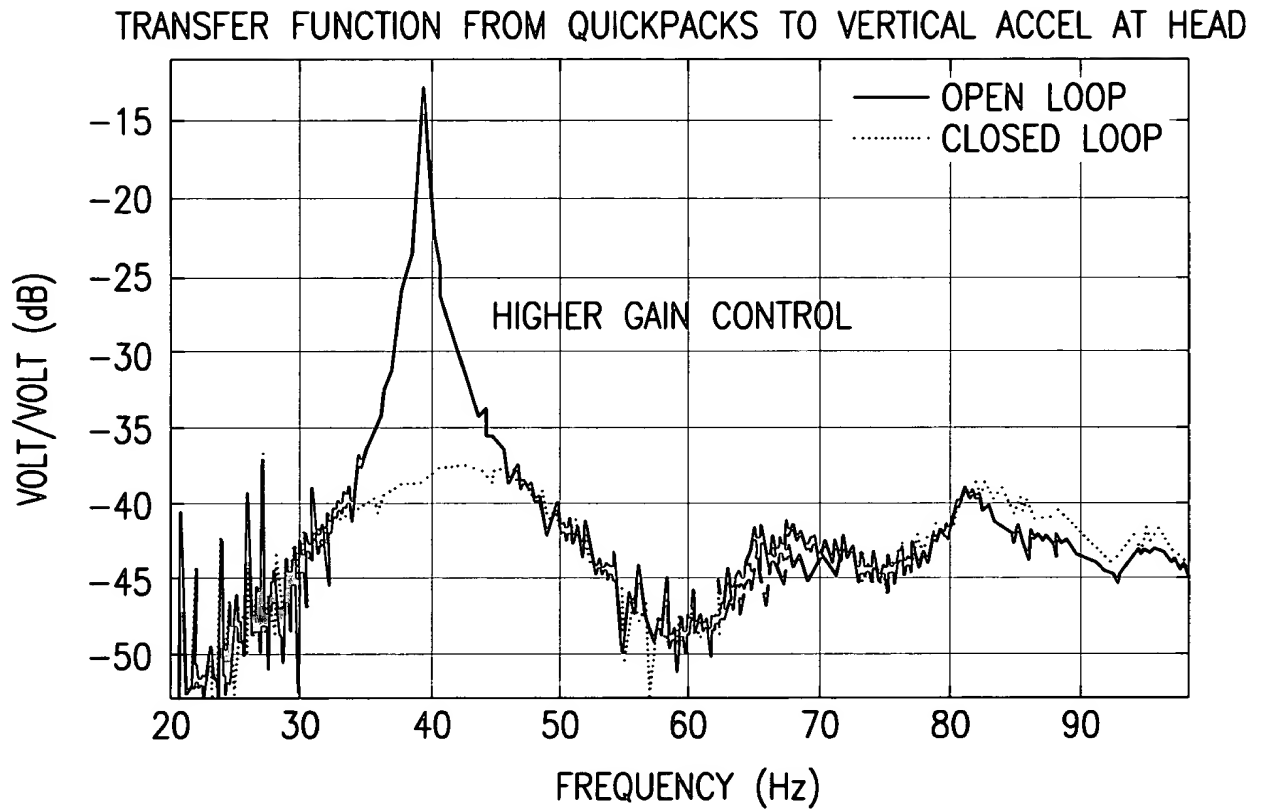
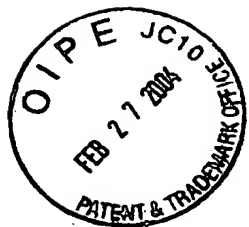


FIG.15



2001-0066-01

Baruch Pletner, et al.

USSN 09/803,320

Filed: March 9, 2001

Title: Multi-Input, Multi-Output Motion Control for a

Lithography System

Sheet 18 of 21

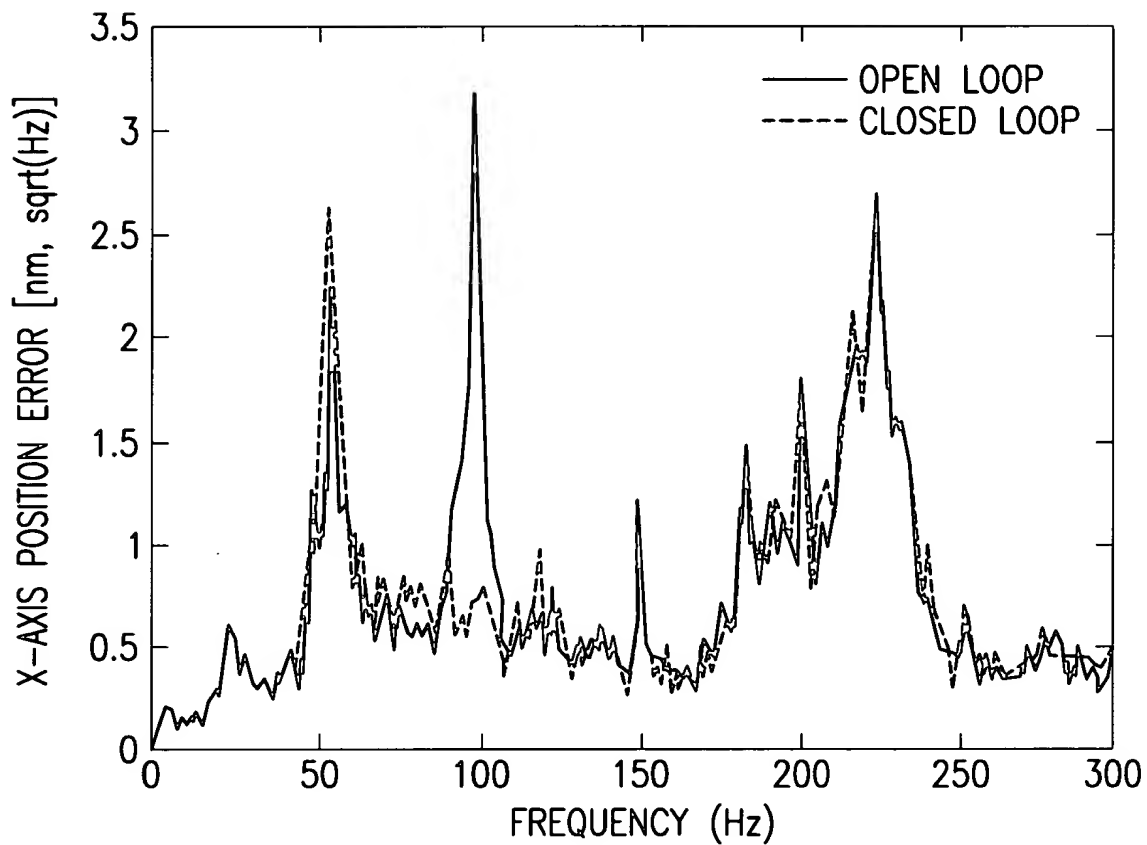


FIG.16

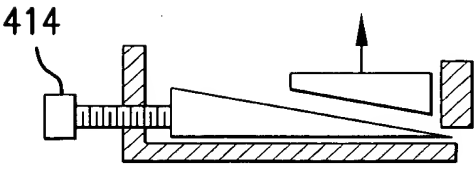
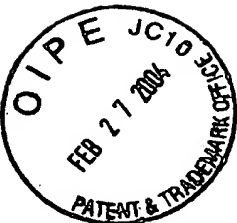


FIG. 17

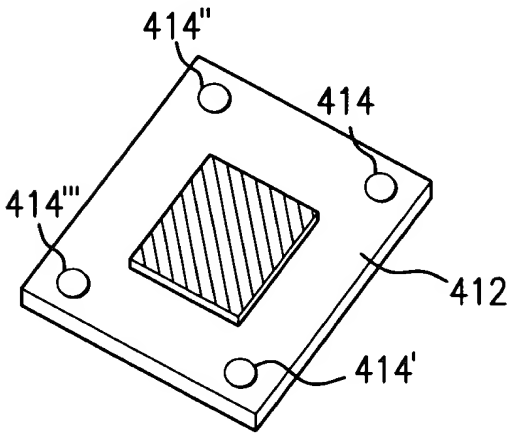


FIG. 18

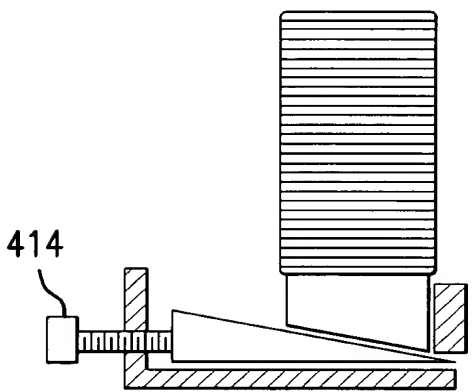


FIG. 19

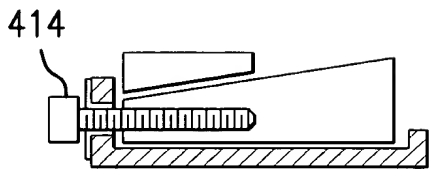


FIG. 20

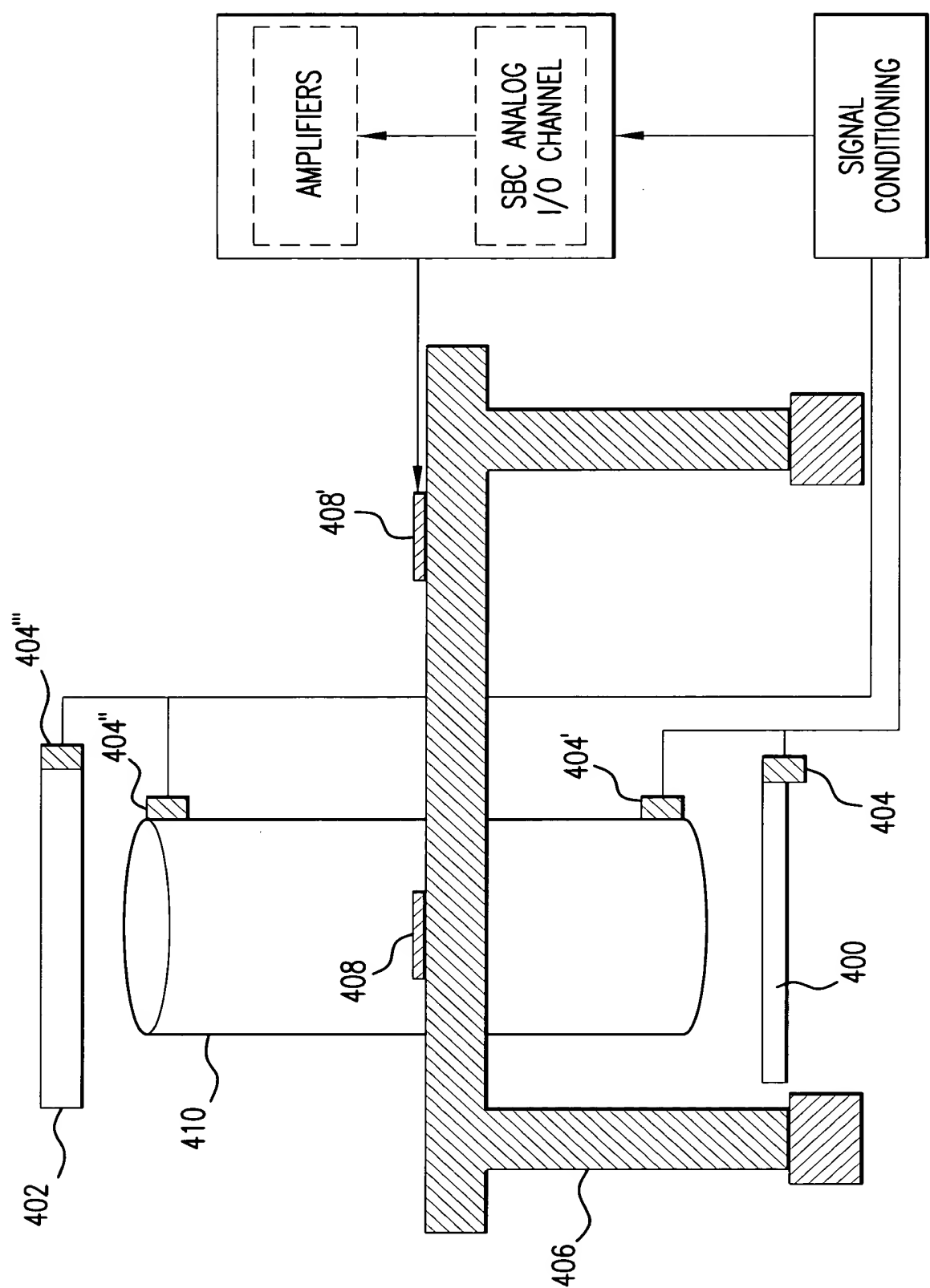
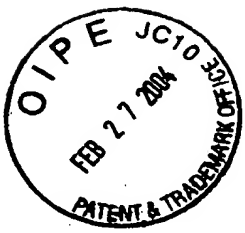
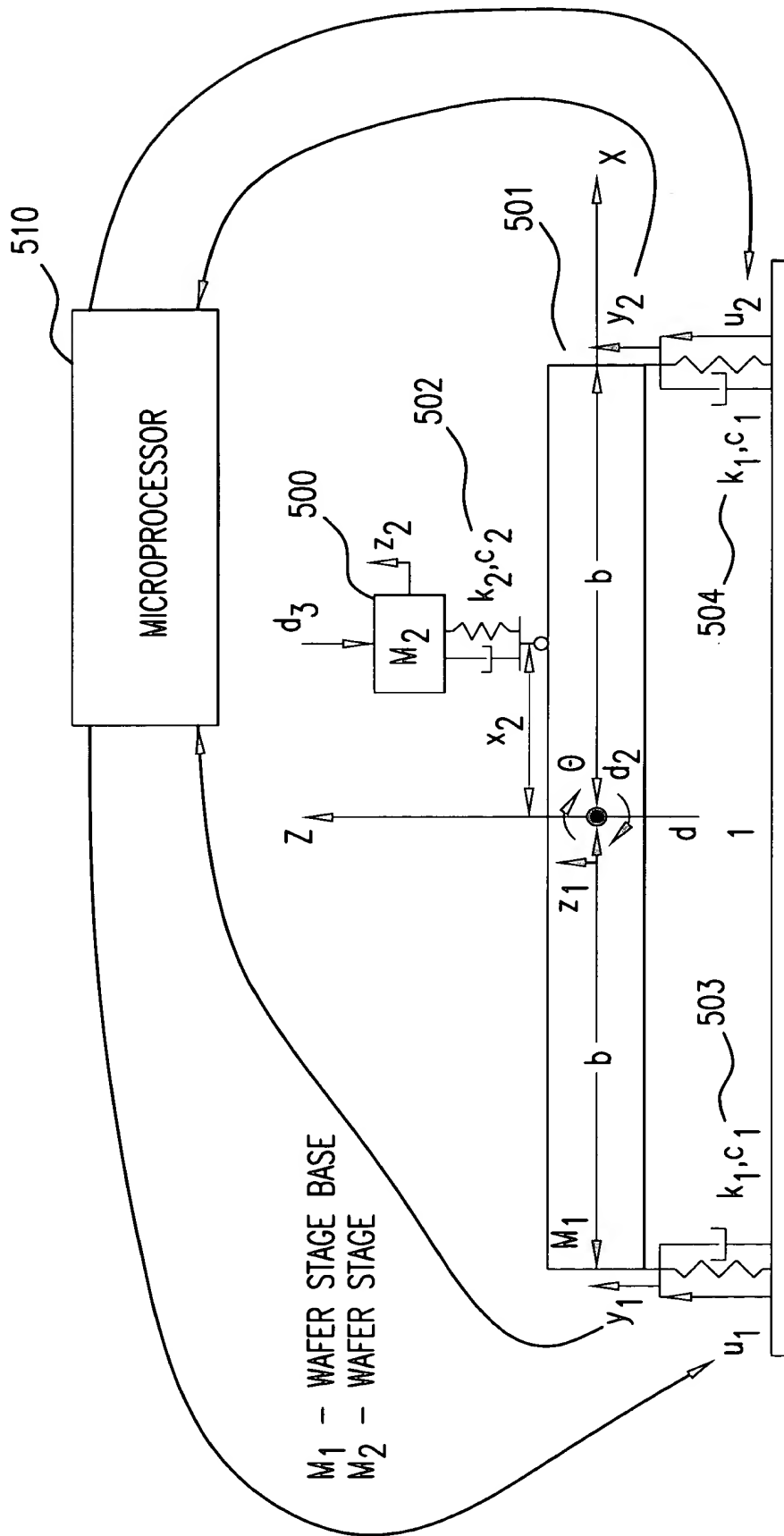


FIG.21



- INPUTS (u_1): VOICE COIL FORCES ON BASE IN Z
- OUTPUTS (y_1): LASER DISPLACEMENT MEASUREMENTS COLLOCATED WITH VOICE COIL INPUTS
- DISTURBANCES (d_1): Z-FORCE AND θ MOMENT ON BASE, Z FORCE ON STAGE

FIG. 22